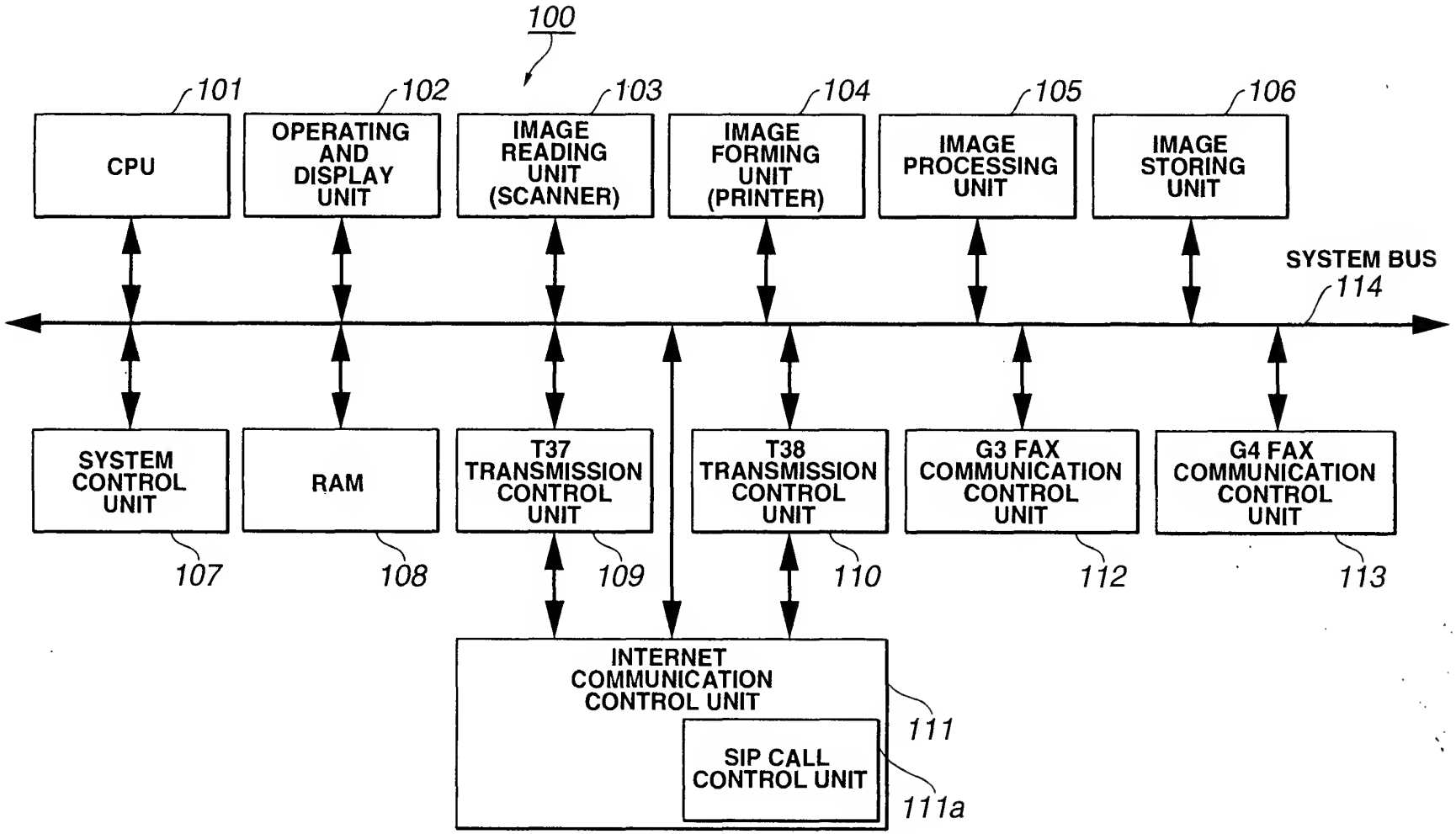

100
101
CPU
102
OPERATING AND DISPLAY UNIT
103
IMAGE READING UNIT (SCANNER)
104
IMAGE FORMING UNIT (PRINTER)
105
IMAGE PROCESSING UNIT
106
IMAGE STORING UNIT
SYSTEM BUS
114
SYSTEM CONTROL UNIT
107
RAM
108
T37 TRANSMISSION CONTROL UNIT
109
T38 TRANSMISSION CONTROL UNIT
110
G3 FAX COMMUNICATION CONTROL UNIT
112
G4 FAX COMMUNICATION CONTROL UNIT
113
INTERNET COMMUNICATION CONTROL UNIT
111
SIP CALL CONTROL UNIT
111a

FIG.1

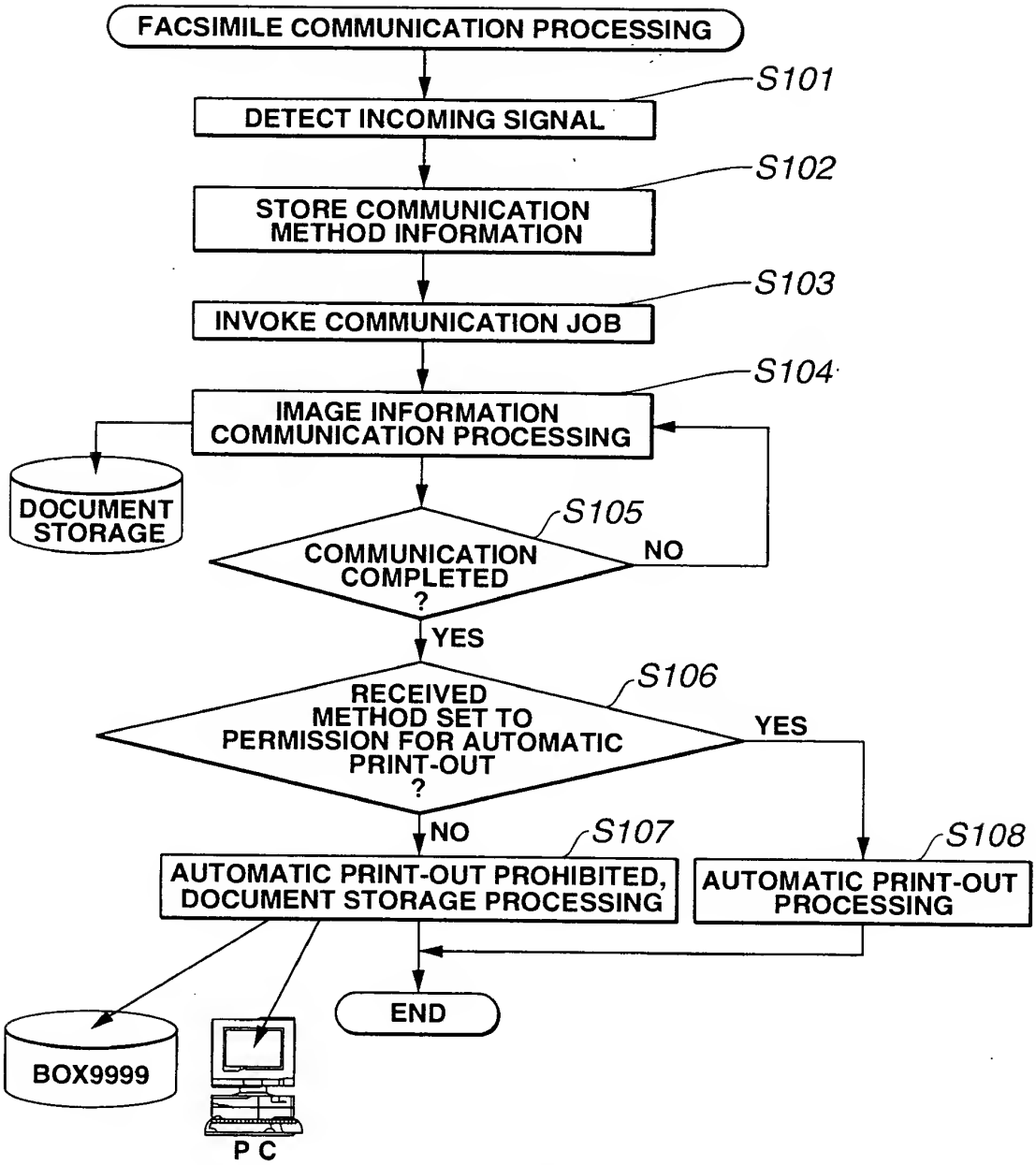

FACSIMILE COMMUNICATION PROCESSING
S101
DETECT INCOMING SIGNAL
S102
STORE COMMUNICATION METHOD INFORMATION
S103
INVOKE COMMUNICATION JOB
S104
IMAGE INFORMATION COMMUNICATION PROCESSING
DOCUMENT STORAGE
S105
COMMUNICATION COMPLETED ?
NO
YES
S106
RECEIVED METHOD SET TO PERMISSION FOR AUTOMATIC PRINT-OUT ?
YES
NO
S107
AUTOMATIC PRINT-OUT PROHIBITED, DOCUMENT STORAGE PROCESSING
S108
AUTOMATIC PRINT-OUT PROCESSING
END
BOX9999
P C

FIG.2

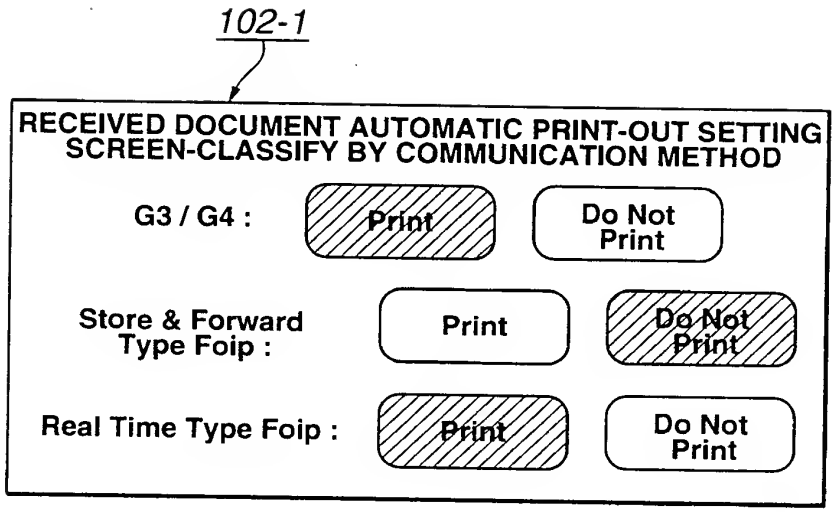

102-1
RECEIVED DOCUMENT AUTOMATIC PRINT-OUT SETTING SCREEN-CLASSIFY BY COMMUNICATION METHOD
G3 / G4 :
Print
Do Not Print
Store & Forward Type Foip :
Print
Do Not Print
Real Time Type Foip :
Print
Do Not Print

FIG.3

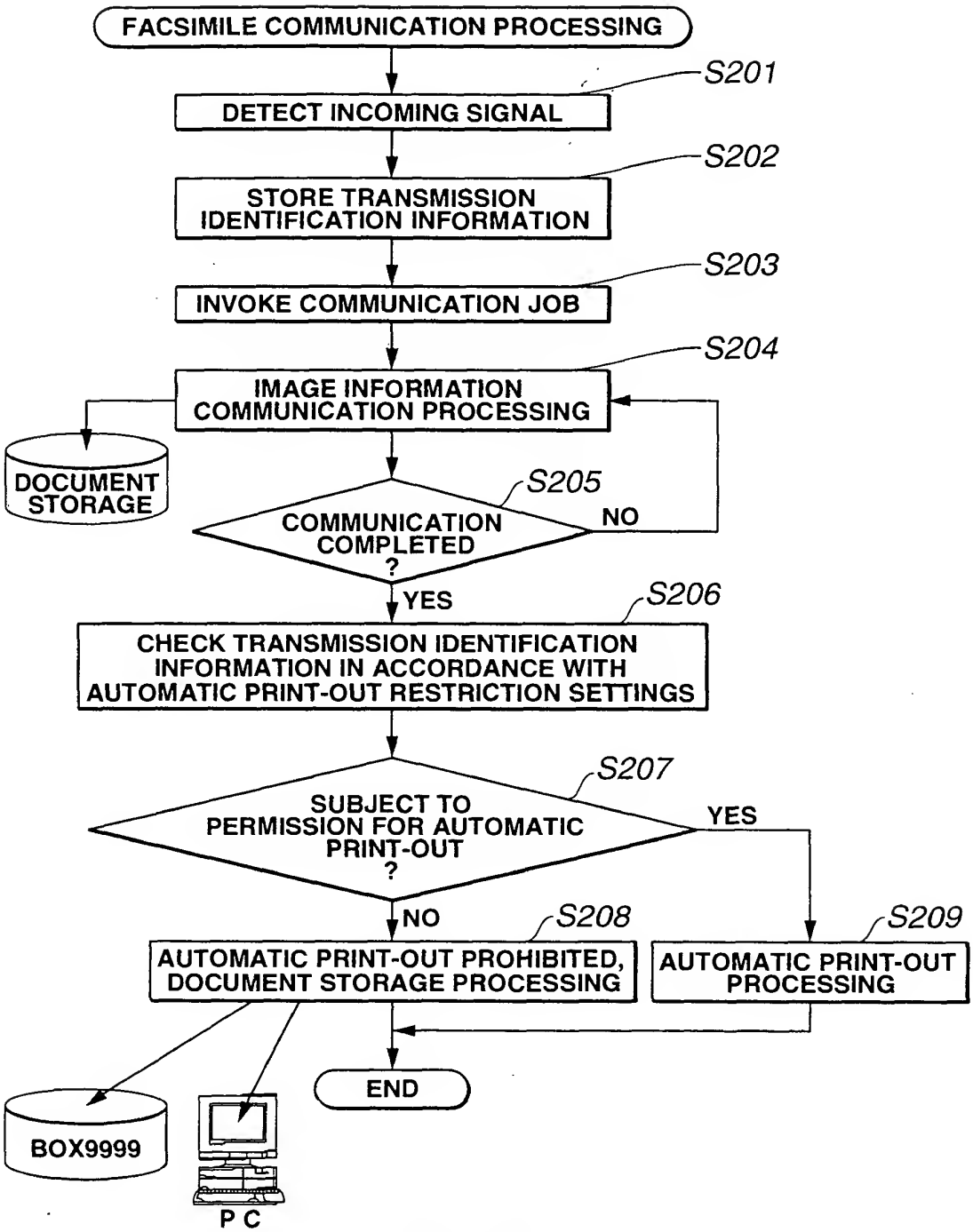
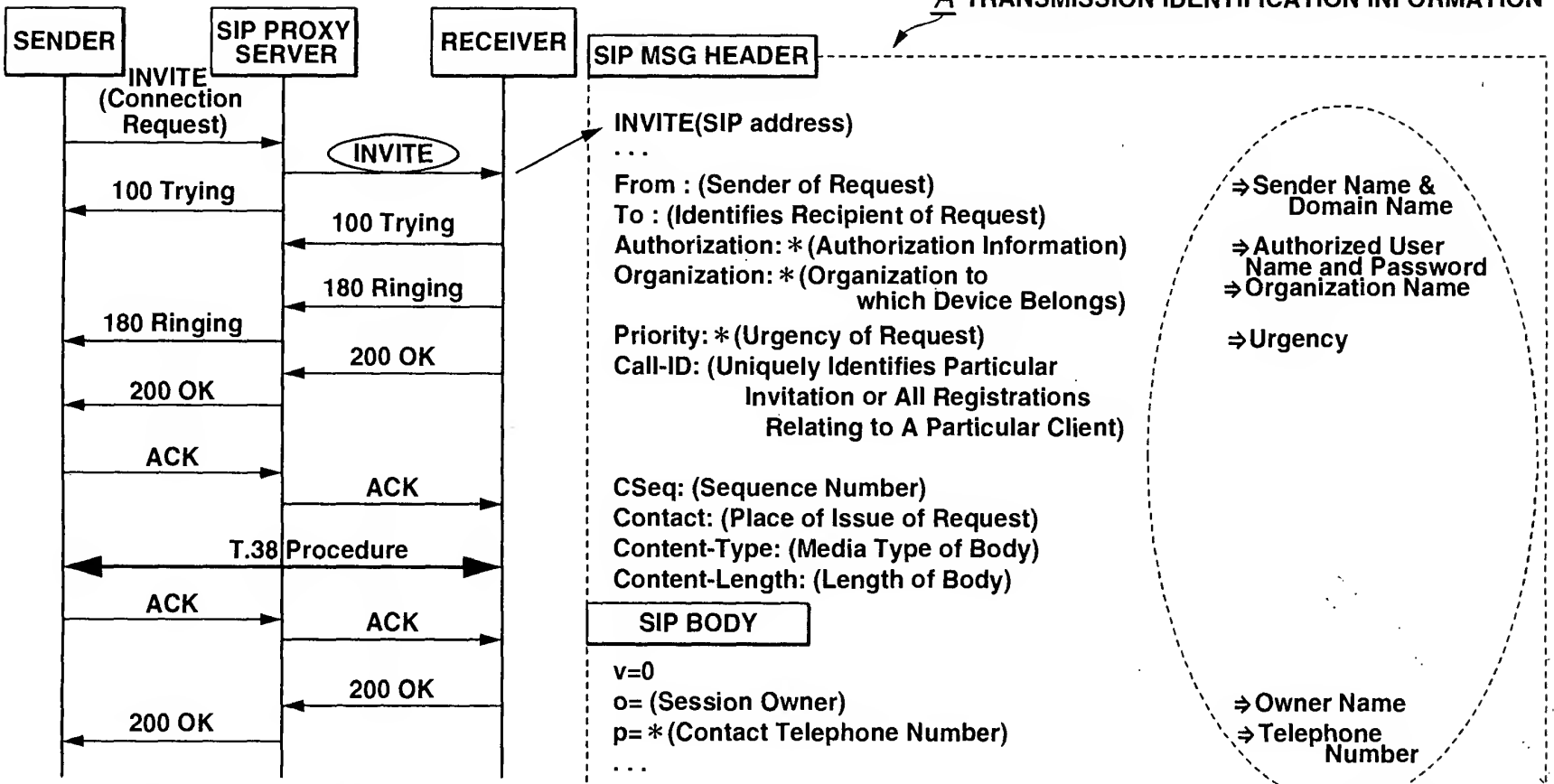

FACSIMILE COMMUNICATION PROCESSING
S201
DETECT INCOMING SIGNAL
S202
STORE TRANSMISSION IDENTIFICATION INFORMATION
S203
INVOKE COMMUNICATION JOB
S204
IMAGE INFORMATION COMMUNICATION PROCESSING
DOCUMENT STORAGE
S205
COMMUNICATION COMPLETED ?
NO
YES
S206
CHECK TRANSMISSION IDENTIFICATION INFORMATION IN ACCORDANCE WITH AUTOMATIC PRINT-OUT RESTRICTION SETTINGS
S207
SUBJECT TO PERMISSION FOR AUTOMATIC PRINT-OUT ?
YES
NO
S208
AUTOMATIC PRINT-OUT PROHIBITED, DOCUMENT STORAGE PROCESSING
S209
AUTOMATIC PRINT-OUT PROCESSING
END
BOX9999
P C

FIG.4



SIP+T.38 FACSIMILE COMMUNICATION PROCEDURE

(* Indicates optional information which does not have to be appended.)

FIG.5

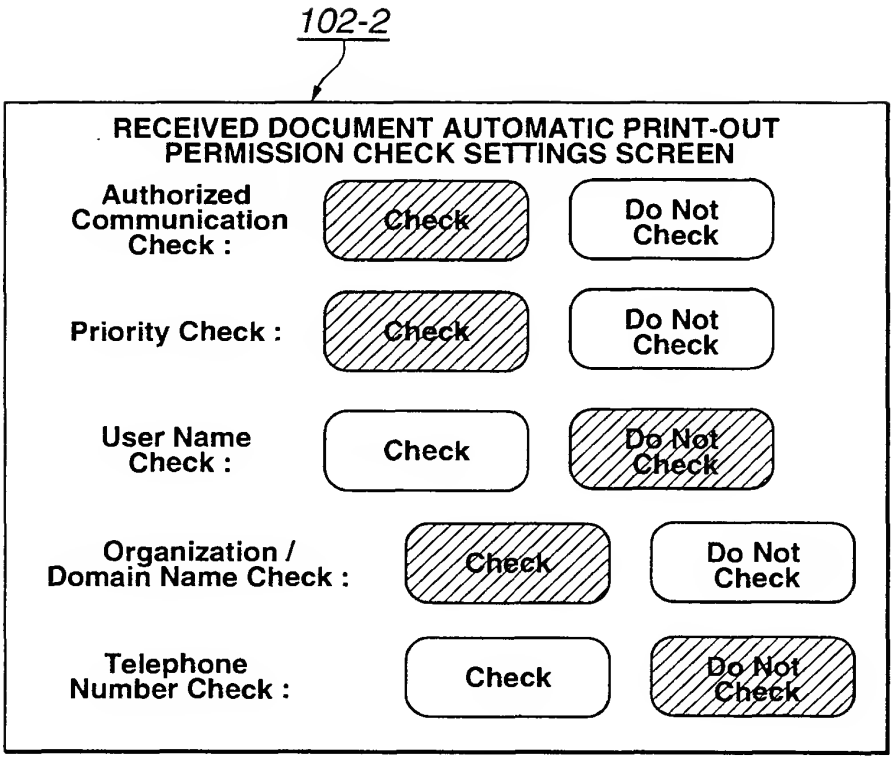

102-2
RECEIVED DOCUMENT AUTOMATIC PRINT-OUT PERMISSION CHECK SETTINGS SCREEN
Authorized Communication Check :
Check
Do Not Check
Priority Check :
Check
Do Not Check
User Name Check :
Check
Do Not Check
Organization / Domain Name Check :
Check
Do Not Check
Telephone Number Check :
Check
Do Not Check

FIG.6

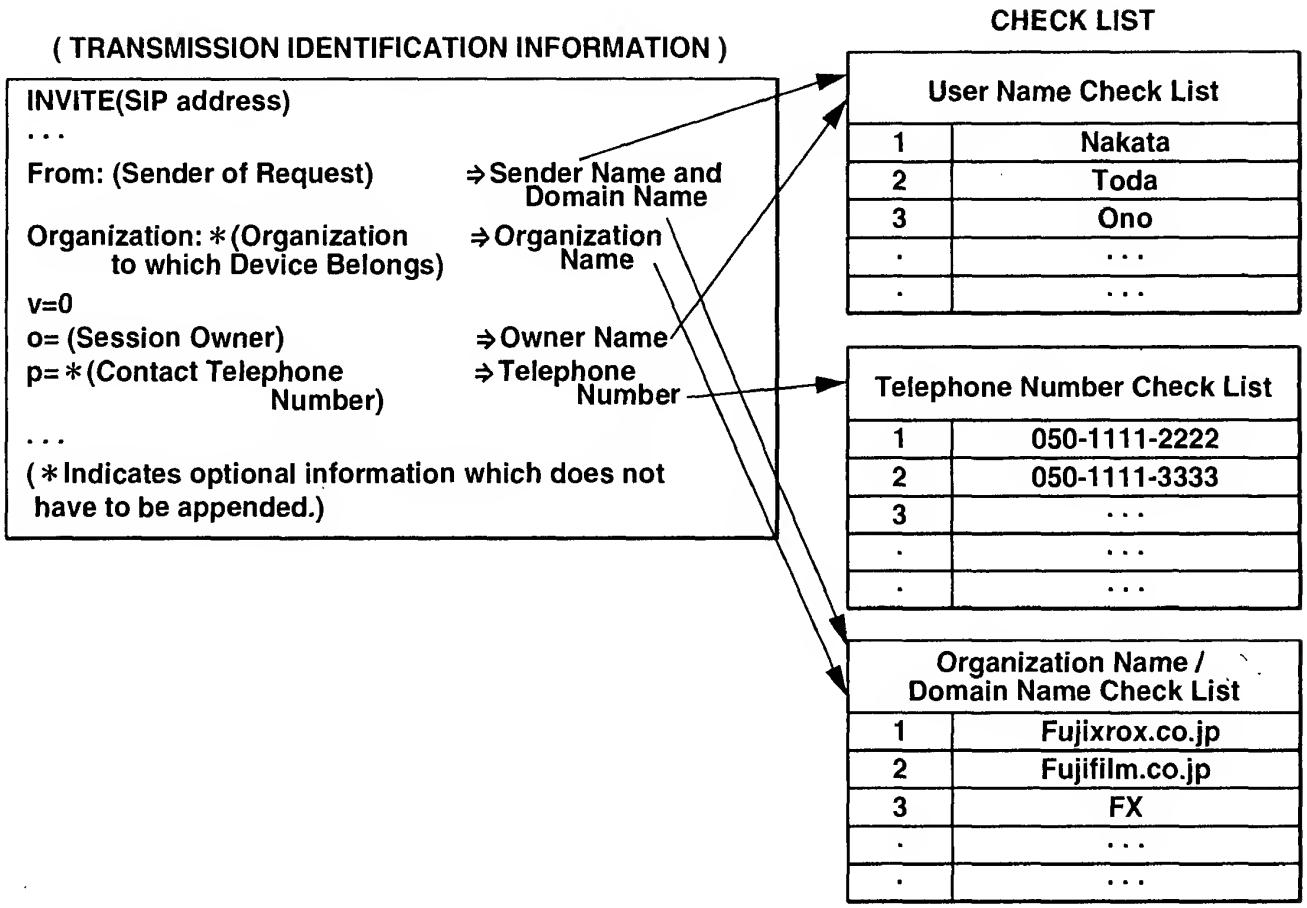

(TRANSMISSION IDENTIFICATION INFORMATION)
INVITE(SIP address)
. . .
From: (Sender of Request)
⇒Sender Name and Domain Name
Organization: *(Organization to which Device Belongs)
⇒Organization Name
v=0
o= (Session Owner)
⇒Owner Name
p=*(Contact Telephone Number)
⇒Telephone Number
. . .
(*Indicates optional information which does not have to be appended.)
CHECK LIST
User Name Check List
1 Nakata
2 Toda
3 Ono
Telephone Number Check List
1 050-1111-2222
2 050-1111-3333
Organization Name / Domain Name Check List
1 Fujixrox.co.jp
2 Fujifilm.co.jp
3 FX

FIG.7

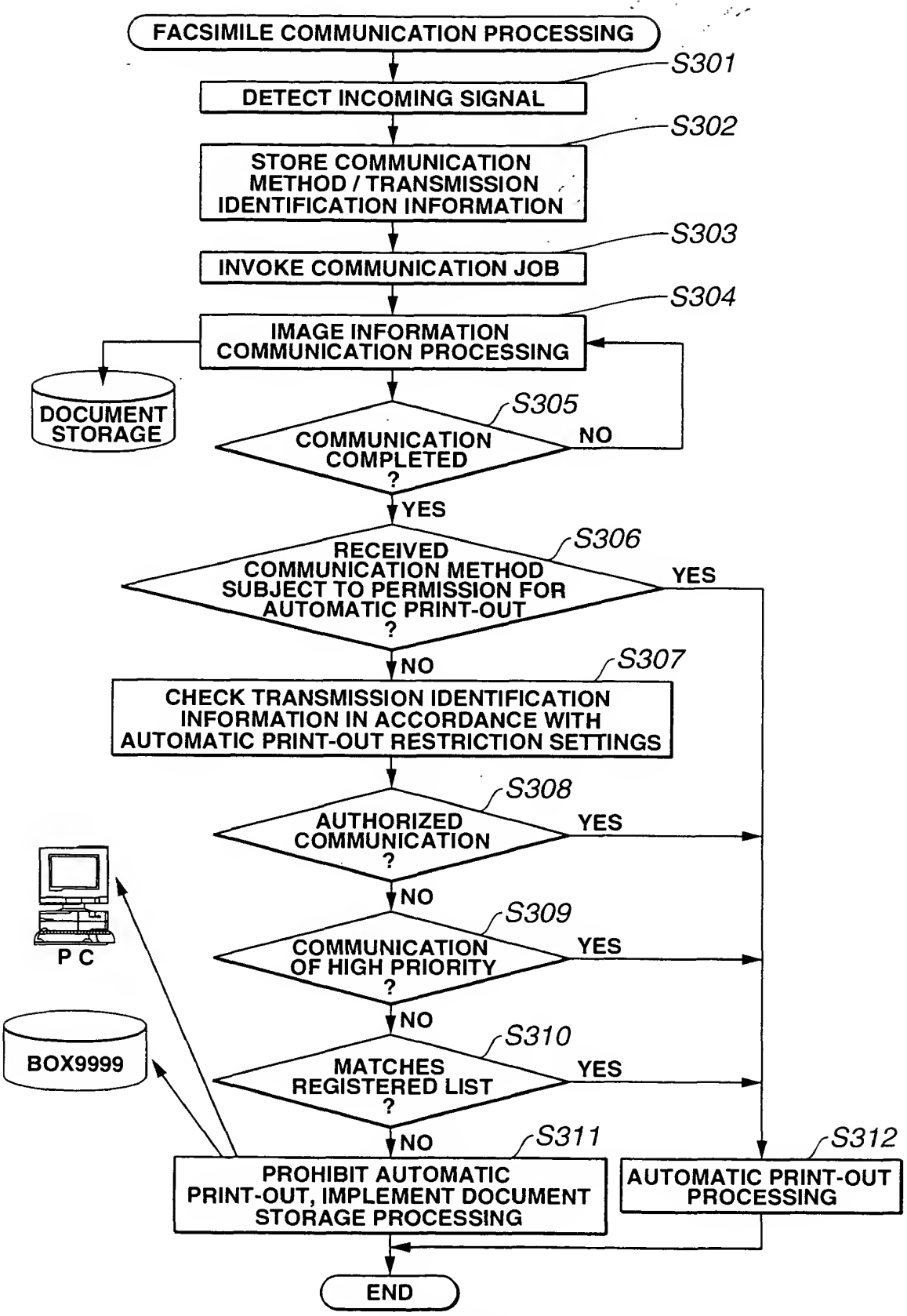

FACSIMILE COMMUNICATION PROCESSING
S301
DETECT INCOMING SIGNAL
S302
STORE COMMUNICATION METHOD / TRANSMISSION IDENTIFICATION INFORMATION
S303
INVOKE COMMUNICATION JOB
S304
IMAGE INFORMATION COMMUNICATION PROCESSING
DOCUMENT STORAGE
S305
COMMUNICATION COMPLETED ?
NO
YES
S306
RECEIVED COMMUNICATION METHOD SUBJECT TO PERMISSION FOR AUTOMATIC PRINT-OUT ?
YES
NO
S307
CHECK TRANSMISSION IDENTIFICATION INFORMATION IN ACCORDANCE WITH AUTOMATIC PRINT-OUT RESTRICTION SETTINGS
S308
AUTHORIZED COMMUNICATION ?
YES
NO
P C
S309
COMMUNICATION OF HIGH PRIORITY ?
YES
NO
BOX9999
S310
MATCHES REGISTERED LIST ?
YES
NO
S311
PROHIBIT AUTOMATIC PRINT-OUT, IMPLEMENT DOCUMENT STORAGE PROCESSING
S312
AUTOMATIC PRINT-OUT PROCESSING
END

FIG.8

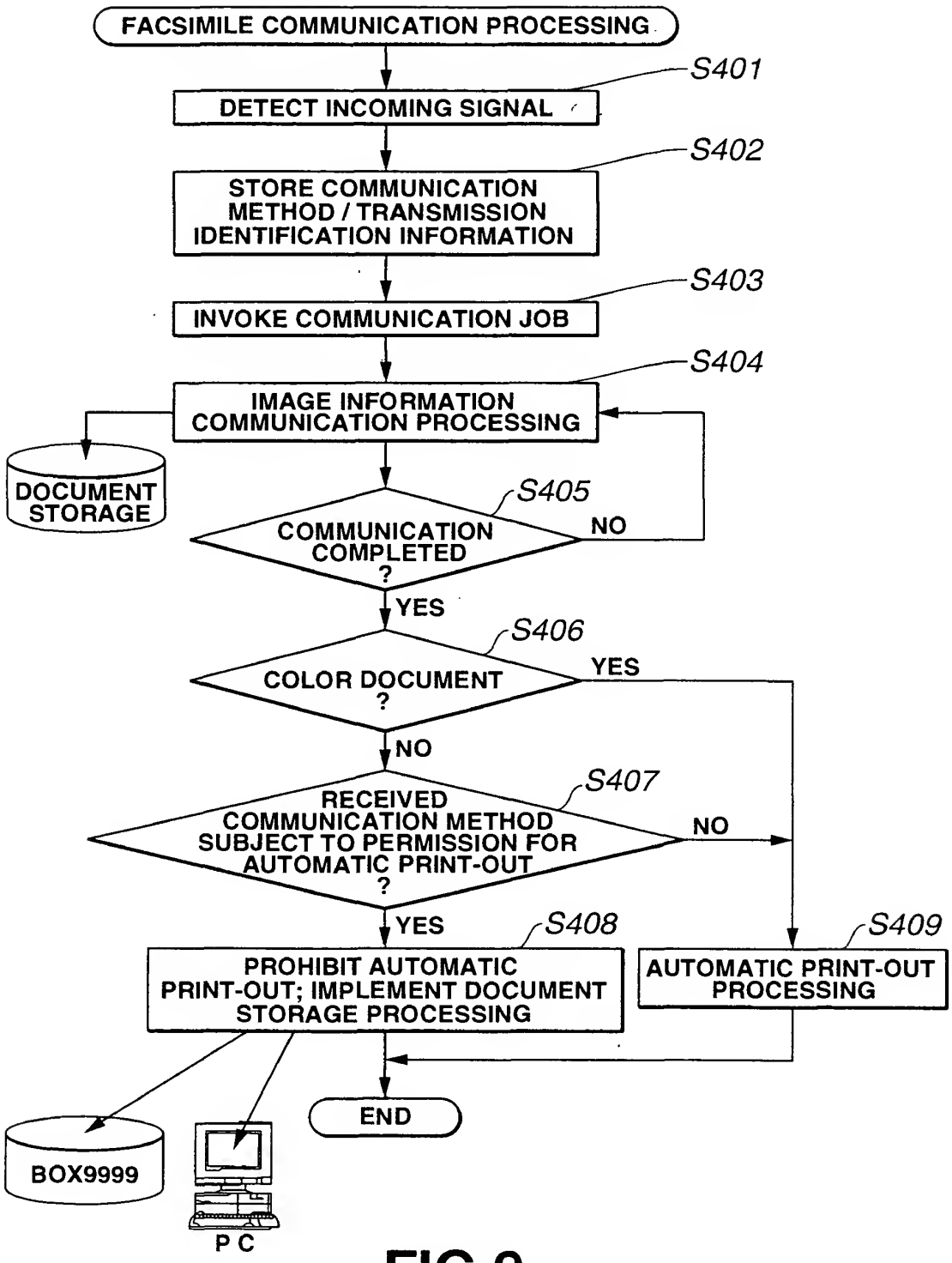

FACSIMILE COMMUNICATION PROCESSING
S401
DETECT INCOMING SIGNAL
S402
STORE COMMUNICATION METHOD / TRANSMISSION IDENTIFICATION INFORMATION
S403
INVOKE COMMUNICATION JOB
S404
IMAGE INFORMATION COMMUNICATION PROCESSING
DOCUMENT STORAGE
S405
COMMUNICATION COMPLETED ?
NO
YES
S406
COLOR DOCUMENT ?
YES
NO
S407
RECEIVED COMMUNICATION METHOD SUBJECT TO PERMISSION FOR AUTOMATIC PRINT-OUT ?
NO
YES
S408
PROHIBIT AUTOMATIC PRINT-OUT; IMPLEMENT DOCUMENT STORAGE PROCESSING
S409
AUTOMATIC PRINT-OUT PROCESSING
END
BOX9999
P C

FIG.9

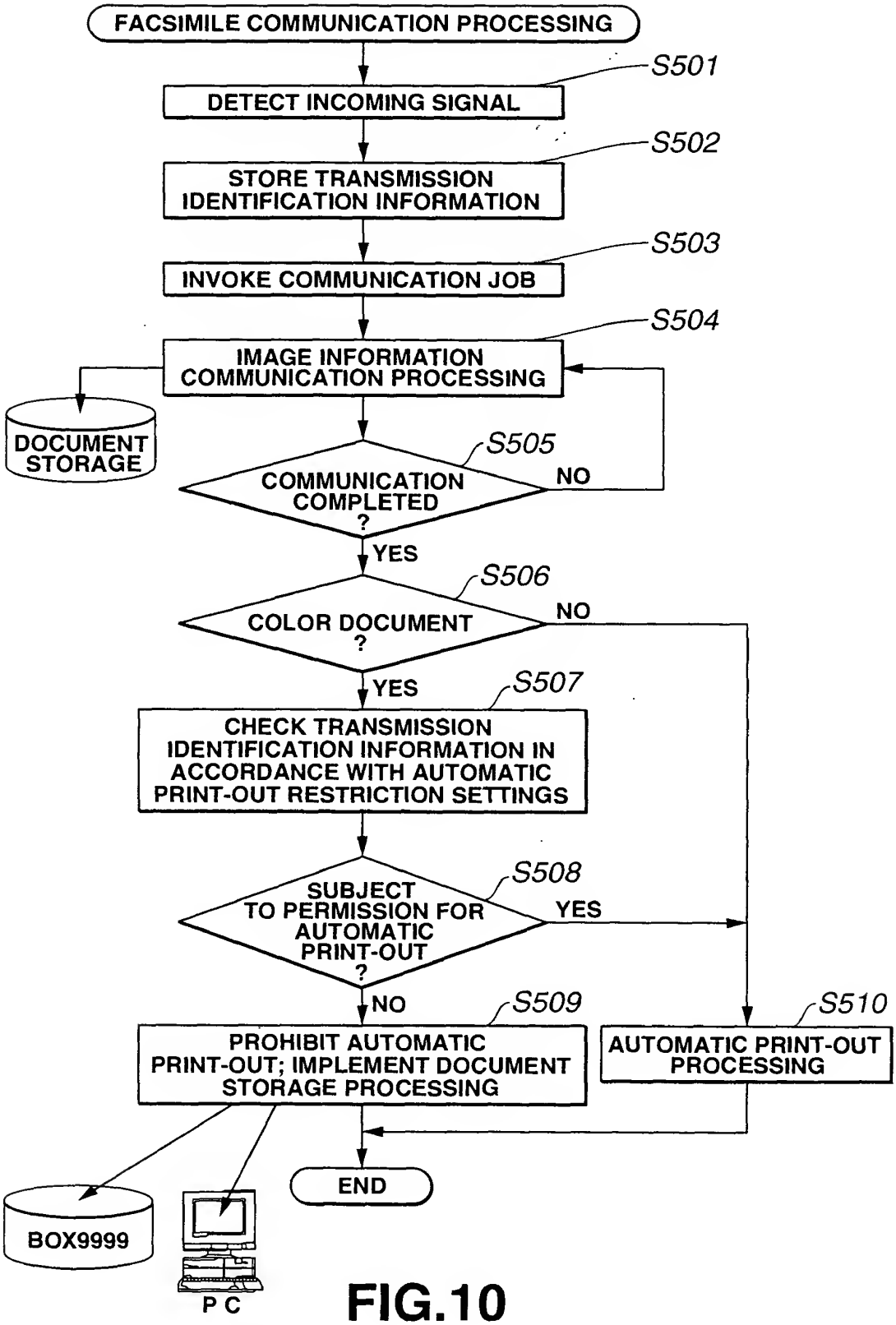

FACSIMILE COMMUNICATION PROCESSING
S501
DETECT INCOMING SIGNAL
S502
STORE TRANSMISSION IDENTIFICATION INFORMATION
S503
INVOKE COMMUNICATION JOB
S504
IMAGE INFORMATION COMMUNICATION PROCESSING
DOCUMENT STORAGE
S505
COMMUNICATION COMPLETED ?
NO
YES
S506
COLOR DOCUMENT ?
NO
YES
S507
CHECK TRANSMISSION IDENTIFICATION INFORMATION IN ACCORDANCE WITH AUTOMATIC PRINT-OUT RESTRICTION SETTINGS
S508
SUBJECT TO PERMISSION FOR AUTOMATIC PRINT-OUT ?
YES
NO
S509
PROHIBIT AUTOMATIC PRINT-OUT; IMPLEMENT DOCUMENT STORAGE PROCESSING
S510
AUTOMATIC PRINT-OUT PROCESSING
END
BOX9999
PC

FIG.10

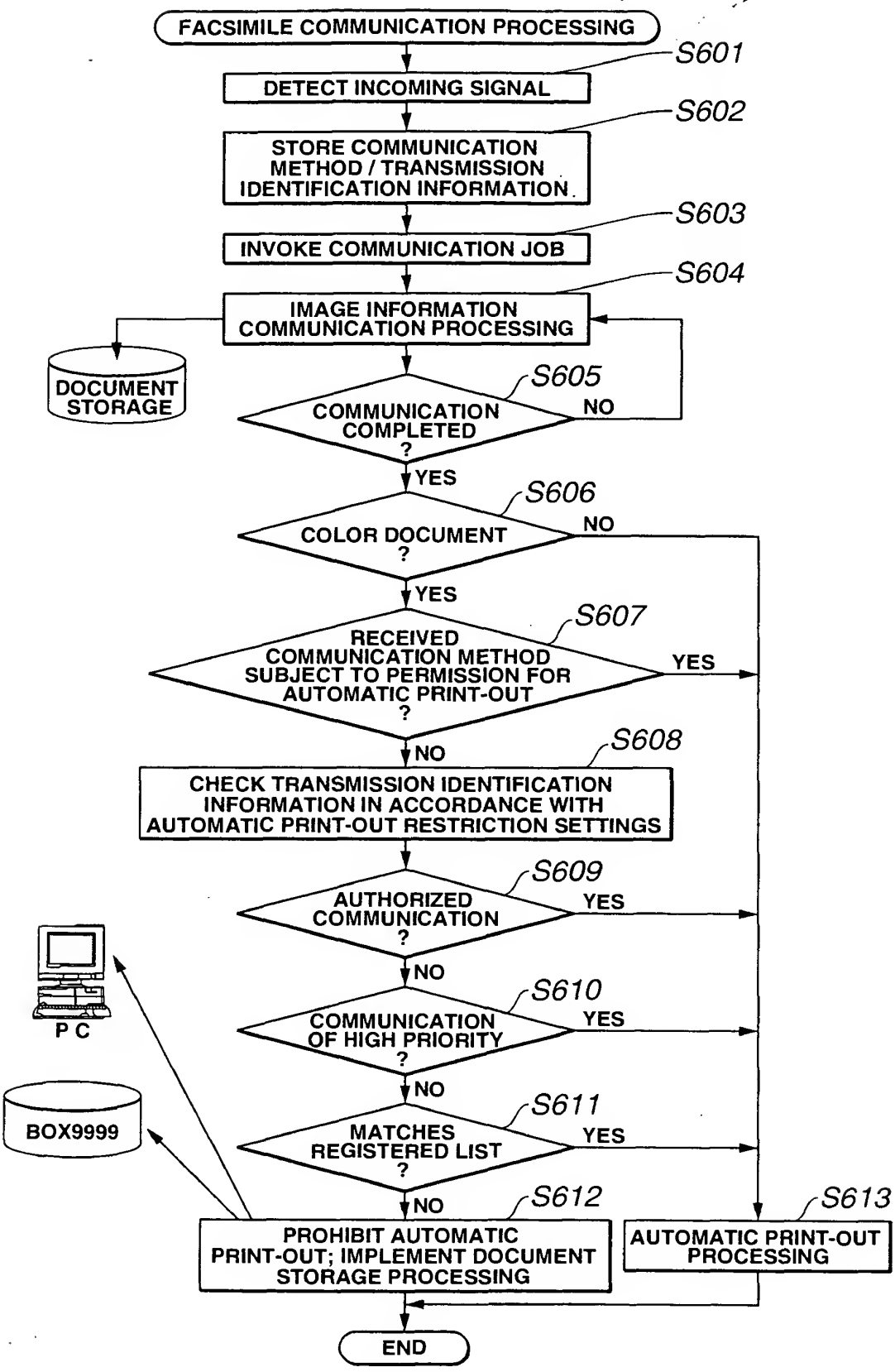

FACSIMILE COMMUNICATION PROCESSING
S601
DETECT INCOMING SIGNAL
S602
STORE COMMUNICATION METHOD / TRANSMISSION IDENTIFICATION INFORMATION
S603
INVOKE COMMUNICATION JOB
S604
IMAGE INFORMATION COMMUNICATION PROCESSING
DOCUMENT STORAGE
S605
COMMUNICATION COMPLETED ?
NO
YES
S606
COLOR DOCUMENT ?
NO
YES
S607
RECEIVED COMMUNICATION METHOD SUBJECT TO PERMISSION FOR AUTOMATIC PRINT-OUT ?
YES
NO
S608
CHECK TRANSMISSION IDENTIFICATION INFORMATION IN ACCORDANCE WITH AUTOMATIC PRINT-OUT RESTRICTION SETTINGS
S609
AUTHORIZED COMMUNICATION ?
YES
NO
P C
S610
COMMUNICATION OF HIGH PRIORITY ?
YES
NO
BOX9999
S611
MATCHES REGISTERED LIST ?
YES
NO
S612
PROHIBIT AUTOMATIC PRINT-OUT; IMPLEMENT DOCUMENT STORAGE PROCESSING
S613
AUTOMATIC PRINT-OUT PROCESSING
END

FIG.11

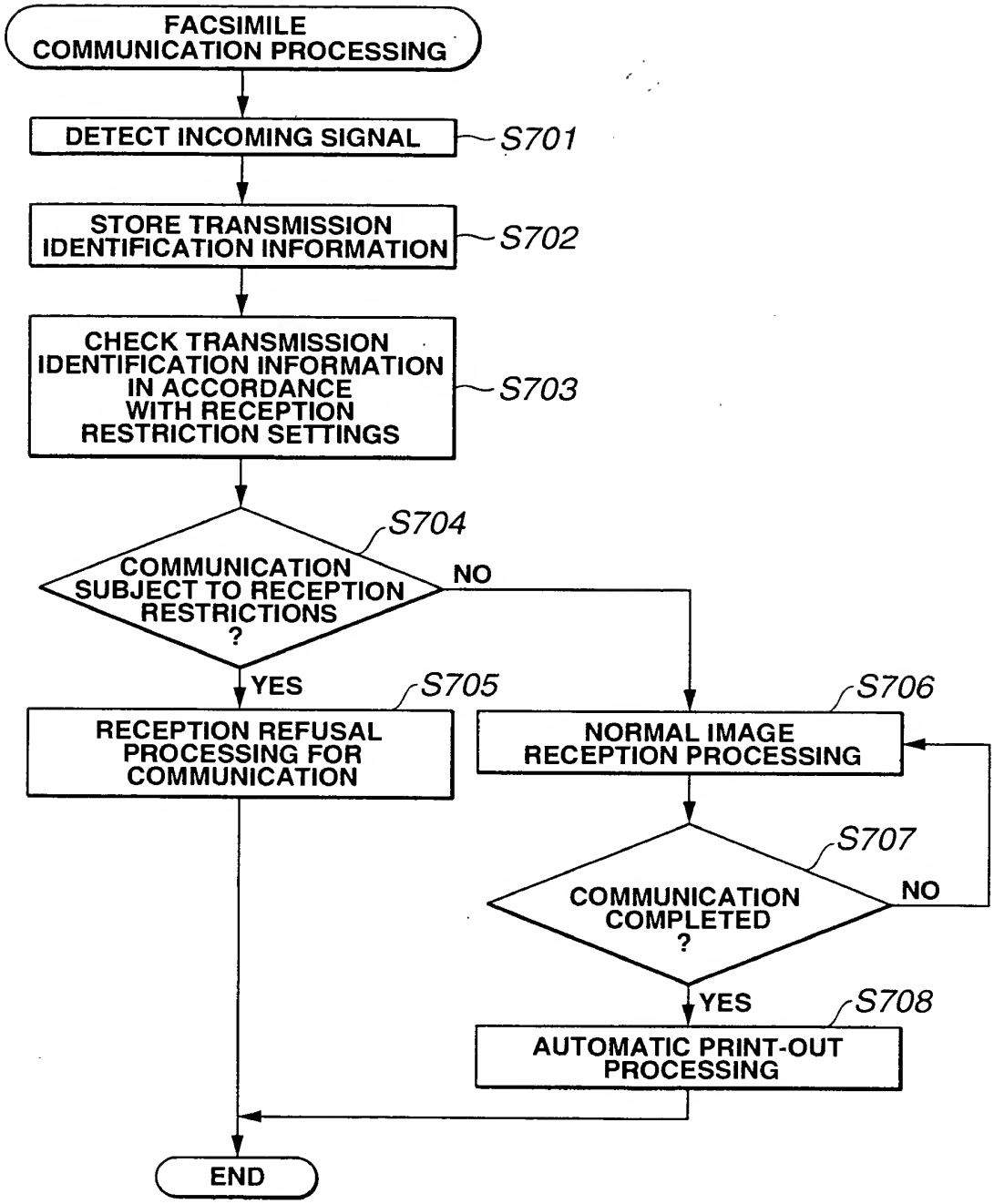

FACSIMILE COMMUNICATION PROCESSING
DETECT INCOMING SIGNAL
S701
STORE TRANSMISSION IDENTIFICATION INFORMATION
S702
CHECK TRANSMISSION IDENTIFICATION INFORMATION IN ACCORDANCE WITH RECEPTION RESTRICTION SETTINGS
S703
S704
COMMUNICATION SUBJECT TO RECEPTION RESTRICTIONS ?
NO
YES
S705
RECEPTION REFUSAL PROCESSING FOR COMMUNICATION
S706
NORMAL IMAGE RECEPTION PROCESSING
S707
COMMUNICATION COMPLETED ?
NO
YES
S708
AUTOMATIC PRINT-OUT PROCESSING
END

FIG.12

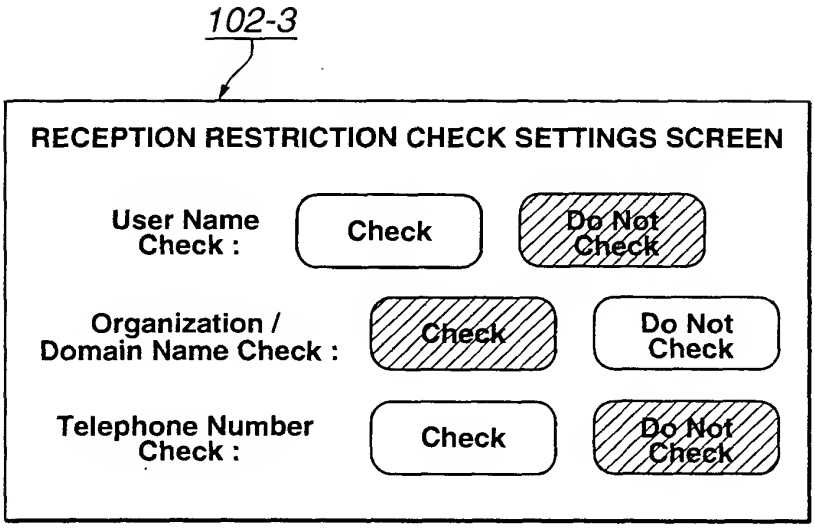
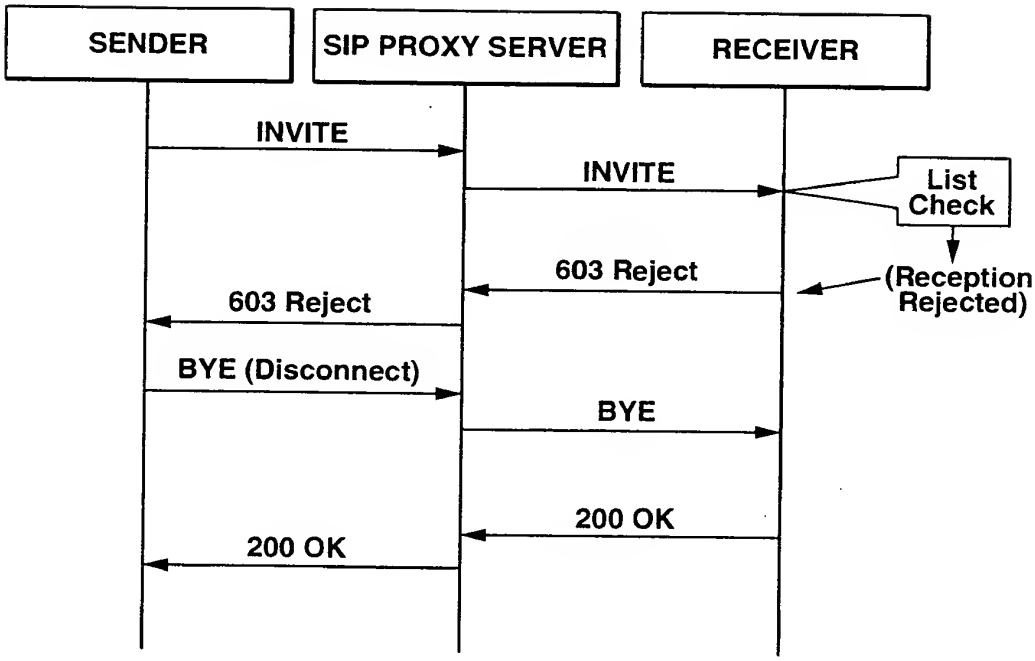

102-3
RECEPTION RESTRICTION CHECK SETTINGS SCREEN
User Name Check :
Check
Do Not Check
Organization / Domain Name Check :
Check
Do Not Check
Telephone Number Check :
Check
Do Not Check

FIG.13



SEQUENCE FOR REJECTING INVITE

FIG.14

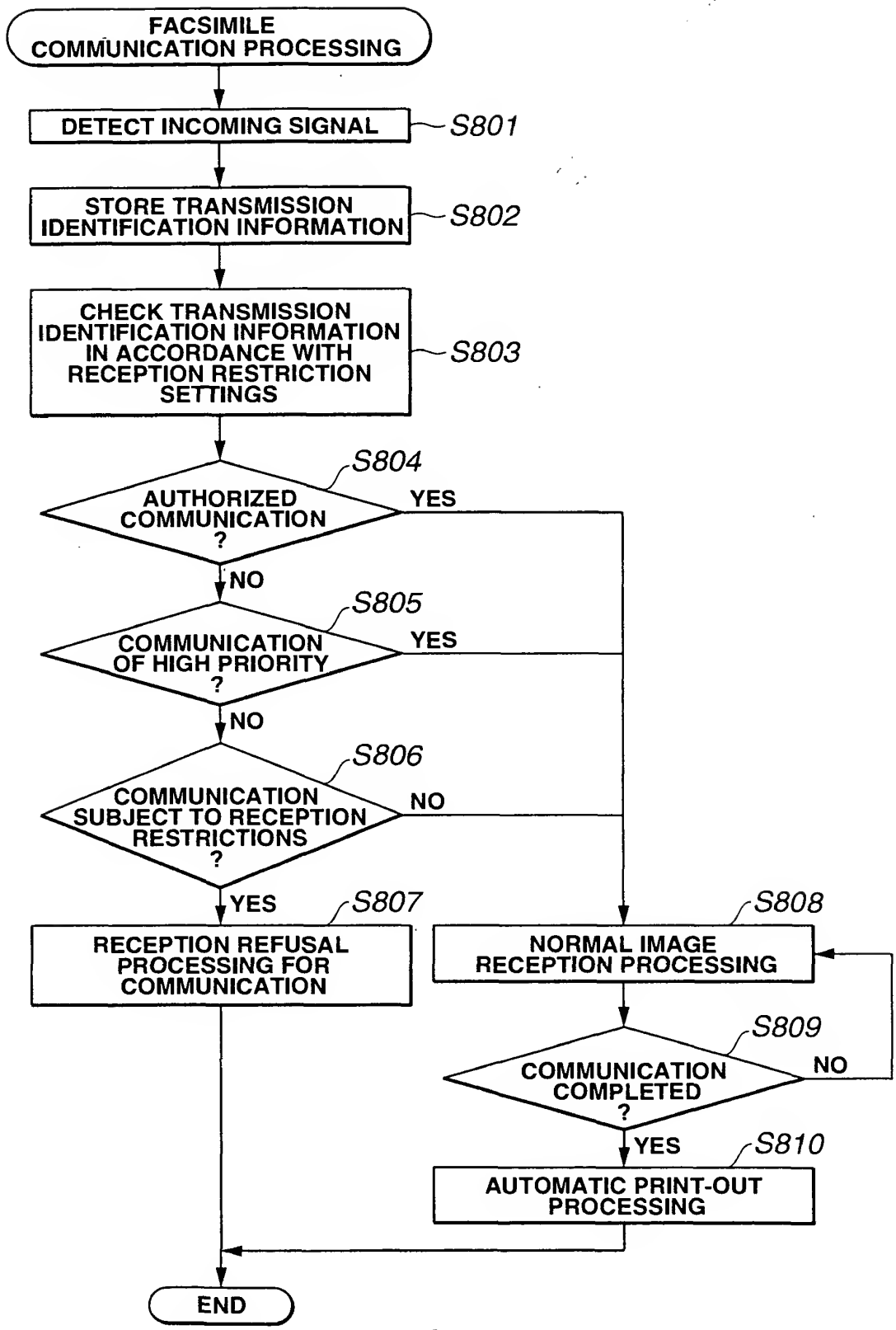

FACSIMILE COMMUNICATION PROCESSING
DETECT INCOMING SIGNAL
S801
STORE TRANSMISSION IDENTIFICATION INFORMATION
S802
CHECK TRANSMISSION IDENTIFICATION INFORMATION IN ACCORDANCE WITH RECEPTION RESTRICTION SETTINGS
S803
S804
AUTHORIZED COMMUNICATION ?
YES
NO
S805
COMMUNICATION OF HIGH PRIORITY ?
YES
NO
S806
COMMUNICATION SUBJECT TO RECEPTION RESTRICTIONS ?
NO
YES
S807
RECEPTION REFUSAL PROCESSING FOR COMMUNICATION
S808
NORMAL IMAGE RECEPTION PROCESSING
S809
COMMUNICATION COMPLETED ?
NO
YES
S810
AUTOMATIC PRINT-OUT PROCESSING
END

FIG.15